

Data Sheet FUJITSU Mainboard D3543-S Mini-ITX

Available

Industrial Series - preliminary -

Intel® embedded Gemini Lake SoC (System on Chip, 10W TDP) for DDR4 2400 SDRAM Memory Enhanced operating temperature range from 0°C to 60°C



Processors (SoC):

Intel® Celeron® Processor J4005 (DC @2.7GHz), integrated Intel® UHD Graphics 600 (12EUs @700MHz) Intel® Celeron® Processor J4105 (QC @2.5GHz), integrated Intel® UHD Graphics 600 (12EUs @750MHz) Intel® Pentium® Silver Processor J5005 (QC @2.8GHz), integrated Intel® UHD Graphics 605 (18EUs @800MHz) 10W TDP

Memory:

2 x DDR4 2400 SDRAM (SO-DIMM)

Product Features:

Intel® UHD Graphics 600/605 (within SoC) 2x DisplayPort V1.2a Dual Channel LVDS (24Bit) and eDP V1.4 onboard 8 Bit GPIO & HD Audio onboard USB 2.0 and USB 3.1 (gen1) onboard 2x SATA III Onboard support for M.2 SSD (SATA/PCIe) Onboard support for M.2 WLAN/Bluetooth module Dual GbE LAN onboard Intel® integrated TPM V2.0 onboard WideRange internal/external DC Input (8V - 36V) HW Watchdog onboard RS-232/485/422 support onboard (tbd)































Features and benefits

Board Size	Mini-ITX: 6.7"	x 6.7" (170 x 170	mm)				
		Processor (S	SoC)	Graphics	Memory	Graphics	
	D3543-S1	Intel® Celero J4005 (DC @2. Max. 10W T	7GHz)	Intel® UHD Graphics 600 12EUs @700MHz (within SoC)		2 x DP V1.2 max. 4096 x 2160 @60Hz 1 x eDP V1.4	
Mainboard Versions	D3543-S2 Intel® Celeron® J4105 (QC @2.5GHz)		5GHz)	Intel® UHD Graphics 600 12EUs @750MHz	DDR4 / 2400 two sockets		
		Max. 10W TDP		(within SoC)	max. 16GB	1 x LVDS 24Bit Dual Channel	
	D3543-S3	Intel® Pentium® Silver J5005 (QC @2.8GHz) Max. 10W TDP		Intel® UHD Graphics 605		max. 1920 x 1200	
				18EUs @800MHz (within SoC)	2	max. 3 x independent display	
Memory	2 x SO DIMM Socket (1.2V), max. 16GB, DDR4 - 2400 (CL17) / 2133 (CL15) SDRAM, unbuffered, non-ECC						
Power Specification	External DC Input 8V-36V (5A max. / xxW max.) tbd Internal DC Input 8V-36V (xxW max.) tbd Onboard SoC and system voltage regulators (high efficiency)						
Power Supply Requirements	for onboard components (worst case incl. memory module; w/o USB devices; w/o M.2 device, w/o SATA devices; w/o eDP or LVDS display)						
	Source	Voltage	Min. PS Load	Max.Voltage Tolerance	Mainboard Capacitive Load	Max. Mainboard Current	
	DC-IN (wide range	8-36V	0A	± 5 % (tbd)	tbd	tbd	
	Typical mainb	oard current: 1A					
BIOS	AMI Aptio 5.x (UEFI) BIOS modified and adapted by Fujitsu Technology Solutions; Recovery BIOS, SM-BIOS (DMI), BIOS an CPU Microcode Update, Quick Boot, Logo Boot, Quiet Boot, Plug & Play, Automatic DRAM Configuration, BIOS Support for S.M.A.R.T., Advanced Power Management, ACPI S3/S4, Wake on tim from S5. Boot support for M.2 SSD (AHCI / NVME) BIOS integrated HW Diagnostic Tool, Watchdog Support No legacy OS support, no MBR installation (UEFI only due to Intel restrictions)						
Security Features	Recovery BIOS, System and BIOS Password, Boot Sequence Control, Serial- / USB- Port Access Protection, Boot Sector Virus Warning, Write Protection for Flash BIOS, EraseDisk (BIOS Feature Intelliptographed TDM V2.0						

Page 2 of 7 ts.fujitsu.com/mainboards

Intel integrated TPM V2.0

Special Features	Silent Fan		Independent temperature related processor fan and			
		,	system fan supervision			
	System Guard Silent Drives		View Silent Fan features Noise reduction for optical and hard disk drives Restores a corrupted BIOS Simple driver update with Driver & Utilities DVD			
	Recovery BIOS					
	Desk Update					
	Multi Boot	· ·	Comfortable boot from any boot device			
	HDD Password		Access protection for disk drives Reliable power-on whenever voltage is connected Option to prevent the system from being shut down			
	Always On					
	Never Off					
	CSA / UL Compliance	Upon request: cTÜVus acc. IEC62368-1				
	FCC Compliance					
Operating Systems	OS	"Runnable"	"Tested/Released by Fujitsu"			
	MS Windows 10-64 RS1	Χ				
	MS Windows 10-64 RS2 ¹	Χ				
	MS Windows 10-64 RS3	X	X (recommended!)			
	Linux-64	X	functional test planned			
		,,	ranedonal test planned			
	Important Note: Legacy OS / MBR installation	(DOS, MS Windows	7,) is not supported due to Intel restriction			
Designed for 24 / 7 use	Longlife components for 24 / 7 use (0°C – 60°C) in industrial applications Revision control & Extended Lifecycle (min. 5 years + 1 year e X tended L ife C ycle option)					
Graphics	Integrated Intel® UHD Graphics 600/605					
	2 x DisplayPort V1.2a / 1 x embedded DisplayPort (eDP) 1.4 / 1 x Dual-Channel 24bit LVDS					
	2 x DisplayPort V1.2a / 1 x er	nbedded DisplayPo	rt (eDP) 1.4 / 1 x Dual-Channel 24bit LVDS			
	2 x DisplayPort V1.2a / 1 x er Supports up to 3 x independe		rt (eDP) 1.4 / 1 x Dual-Channel 24bit LVDS			
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Longterm driver support for RS1 (LTSB) and RS2 is not guaranteed

Page 3 of 7 ts.fujitsu.com/mainboards

WLAN / Bluetooth	1 x M.2 Key E socket (WLAN / Bluetooth), mechanical support for 2230					
	Supports M.2 modules with PCle x1 (Gen2) and / or USB 2.0 interface Note: Simultaneous use of M.2 2280 modules and M.2 2230 (WLAN/Bluetooth) possible!					
LVDS	LVDS Controller Realtek RTD2136R (DisplayPort to LVDS converter)					
Mini-PCle	1 x mini PCle socket (PCle / USB), mechanical support for full and half size mini PCle cards					
	Supports modules with mini PCle x1 (Gen2) and USB 2.0 interface					
Features	Chipset	Intel Gemini Lake SoC				
D3543-S (Mini-ITX)	DP V1.2a / 2 nd DP V1.2a / LVDS / eDP V1.4 / HDMI / DVI / VGA	√ √ √ √ - - -				
	Buzzer / int. Speaker Support (mono) ² / 5.1 Multichannel Audio	√ √ √				
	LAN Gbit / 100 Mbit / 10 Mbit / WoL / PXE / M.2 2230 WLAN-BT	√ √ √ √ √ √				
	iAMT-vPro / Intel Standard Manageability / DASH V1.1	-/-/-				
	SATA / M.2 (SATA) / M.2 PCIe (1 lane) / eSATA-Support / RAID / mSATA	✓ / ✓ / ✓ / ✓ / - / -				
	Mini-PCle / USB 2.0 / USB 3.1 (gen1) / FireWire™	√ √ √ -				
	FAN monitored & controlled PSU / CPU / AUX1 / AUX2	- 🗸 🗸 -				
	TEMP monitored CPU / onboard sensors / external sensor	√ √ -				
Special Features	COM interface support for RS-232 / RS-485 / RS-422	(planned)				
D3543-S	Silent Fan / System Guard / Silent Drives	√ √ √				
	Recovery BIOS / Desk Update / Multi Boot	√ √ √				
	HDD Password / EraseDisk ³ / TPM V1.2 / TPM V2.0	√ √ - √				
	Logo Boot Option / Intel On Screen Branding	√ / √				
	BIOS POST- / BIOS Boot- / OS- HW Watchdog	√ √ √				
	Operating Mode 24-7 / 8-5 (hrs per day - days per week)	√ / -				
	Mainboard operating temperature range (chassis inside) ⁴	0°C – 60°C				
Internal Connectors	SO DIMM Sockets (DDR4 2400)	2				
D3543-S	SATA-600 / M.2 SSD ⁵ / M.2 WLAN-BT / mSATA / Mini-PCle	2/1/1/-/1				
	Front Panel Audio (9-Pin, HD Audio) / SP-DIF Out (Digital Audio)	1/1				
	USB 2.0 pin header (provides 2 USB channel) / USB Stick socket	2/1				
	USB 3.1 Gen1 pin header (provides 2 USB channels) ⁶	1				
	Serial COM3 ⁷ / Serial COM4 ⁸ / Parallel Port header	tbd / tbd / 1				
	LVDS / LVDS Backlight / Embedded DisplayPort	1/1/1				
	FAN PSU / CPU (PWM) / AUX1 (PWM)	-/1/1				
	Intrusion (Case Open) / GPIO (8Bit) / SMBus (Case Temp.)	1/1/-				
	Mono Speaker header / Internal Stereo Speaker header / DMIC header	1 / - / -				
	Front Panel (Power Switch, Reset Switch, LEDs, Intel 10 pin header)	1				
	SATA Drive Power Connector (5V/12V) / DC-In Connector 8-36V (4 pin)	1/1				
External Connectors	DisplayPort V1.2a / HDMI / DVI / VGA	21-1-1-				
D3543-S	Audio Mic. In / Line in / Line out (or driver configuration)	-/1/1				
	LAN (RJ-45) / PS/2 Keyboard / Mouse	2/2				
	USB 2.0 / USB 3.1 Gen1	2/2				
	DC-In connector (external input) 8-36V @ 5A max.	1				

 $^{^2}$ Mono speaker support; max. 2.2W @4 Ω / 1.3W @8 Ω

Page 4 of 7 ts.fujitsu.com/mainboards

³ BIOS feature; License included

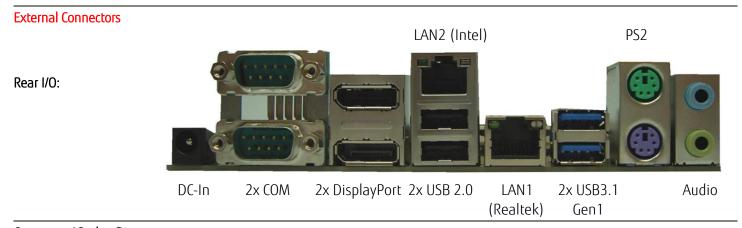
Forced cooling required for high operating temperature range. See upcoming TechNotes document for details

Forced cooling required for high operating temperature range, see opcoming recurrons occurred. Sata-based M.2 SSD is shared with SATA port 1; simultaneous use of M.2 2280 module and M.2 2230 module (WLAN/Bluetooth) possible

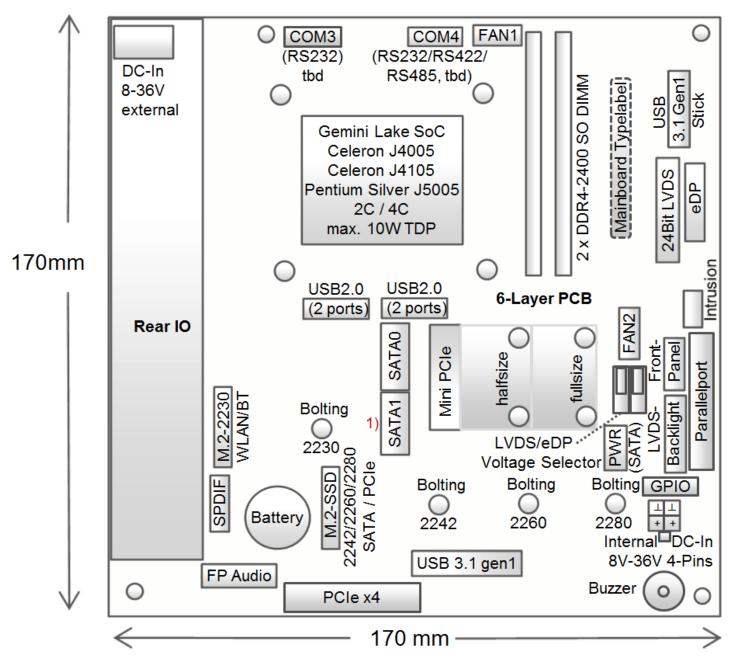
⁶ USB3 connector includes separate USB2.0 signal pins (2 channels)

RS232; reduced feature set; **feasibility / driver support tbd**; pin header 2mm pitch. See TechNotes document for details

⁸ RS-232 / RS-422 / RS-485; reduced feature set; **feasibility / driver support tbd**; pin header 2mm pitch. See TechNotes document for details



Connector / Socket Diagram



1) SATA Port1 shared with M.2 SATA-SSD

Page 5 of 7 ts.fujitsu.com/mainboards

Accessories

Accessories	(Ordercode)	
Mini-ITX Chassis Kit for D3543-S	F5000-J5	
Internal AC Adapter 12V/65W for chassis kit	F5000-P4	
AC Adapter 19V/40W	F5000-P5 (E622)	
AC Adapter 19V/65W	F5000-P3 (E623)	
Active Heatsink + Backplate	F5000-C9	
Fanless Heatsink + Backplate	F5000-C10	
USB-C Rear Extension Cable (USB 3.1/gen1)	tbd	
Risercard 1x PCle X4	F5000-R6 (D3318)	

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